

A large red and white dredging vessel is shown on the water. The vessel has a prominent red crane arm extending diagonally across the frame. The background is a clear blue sky. The text is overlaid on the image in a blue, sans-serif font.

# Dredge Material - Resource versus Spoil

Regulatory Perspective  
and AUD Process

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# How is Dredged Material Regulated?

## ✍ State Statutory Authority

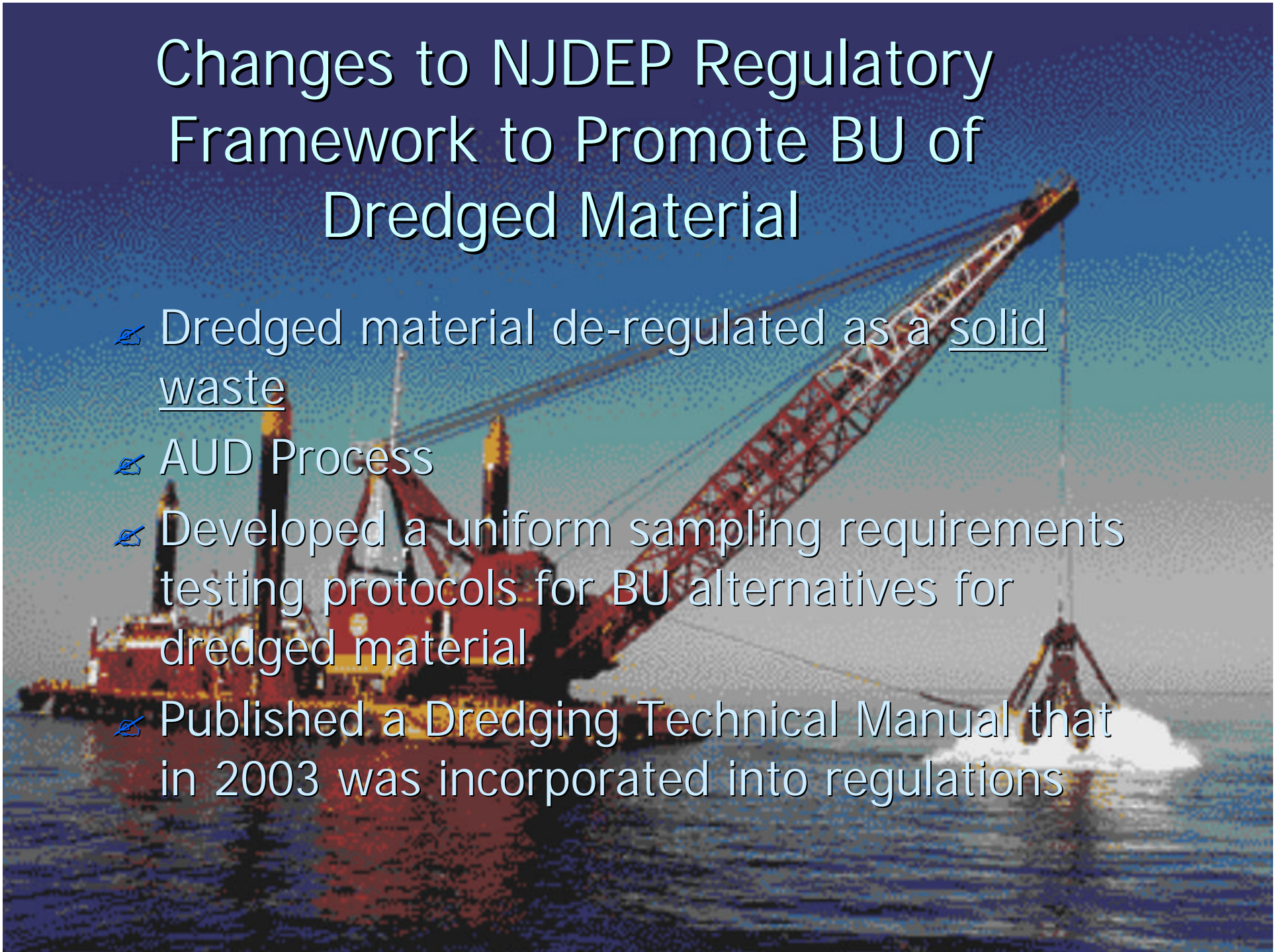
- The Waterfront and Harbor Facilities Act of 1914 (N.J.S.A. 12:5-3);
- The Coastal Area Facility Review Act (CAFRA) (N.J.S.A. 13:19);
- The Wetlands Act of 1970 (N.J.S.A. 13:9A)

## ✍ Rules on Coastal Zone Management "Rules" (N.J.A.C. 7:7E et seq.)



# Changes to NJDEP Regulatory Framework to Promote BU of Dredged Material

- ✍ Dredged material de-regulated as a solid waste
- ✍ AUD Process
- ✍ Developed a uniform sampling requirements testing protocols for BU alternatives for dredged material
- ✍ Published a Dredging Technical Manual that in 2003 was incorporated into regulations



# Acceptable Use Determinations (AUD)

- ✍ An AUD is required for any proposed use, processing and transport of dredged material
- ✍ Results of testing required for the intended use allow for an evaluation of any potential environmental impact by DEP of proposed end use of material



## AUD'S (continued)

- ✍ Issued in conjunction with Waterfront Development Permit OR when material is to be moved from its approved location.



# Beneficial Use of Dredged Material

## WHY?

- ✍ Limited acreage for disposal areas in most waterfront communities
- ✍ There is a need for renewable capacity in existing disposal areas
- ✍ Savings in costs for purchasing construction fill material
- ✍ It's good stuff



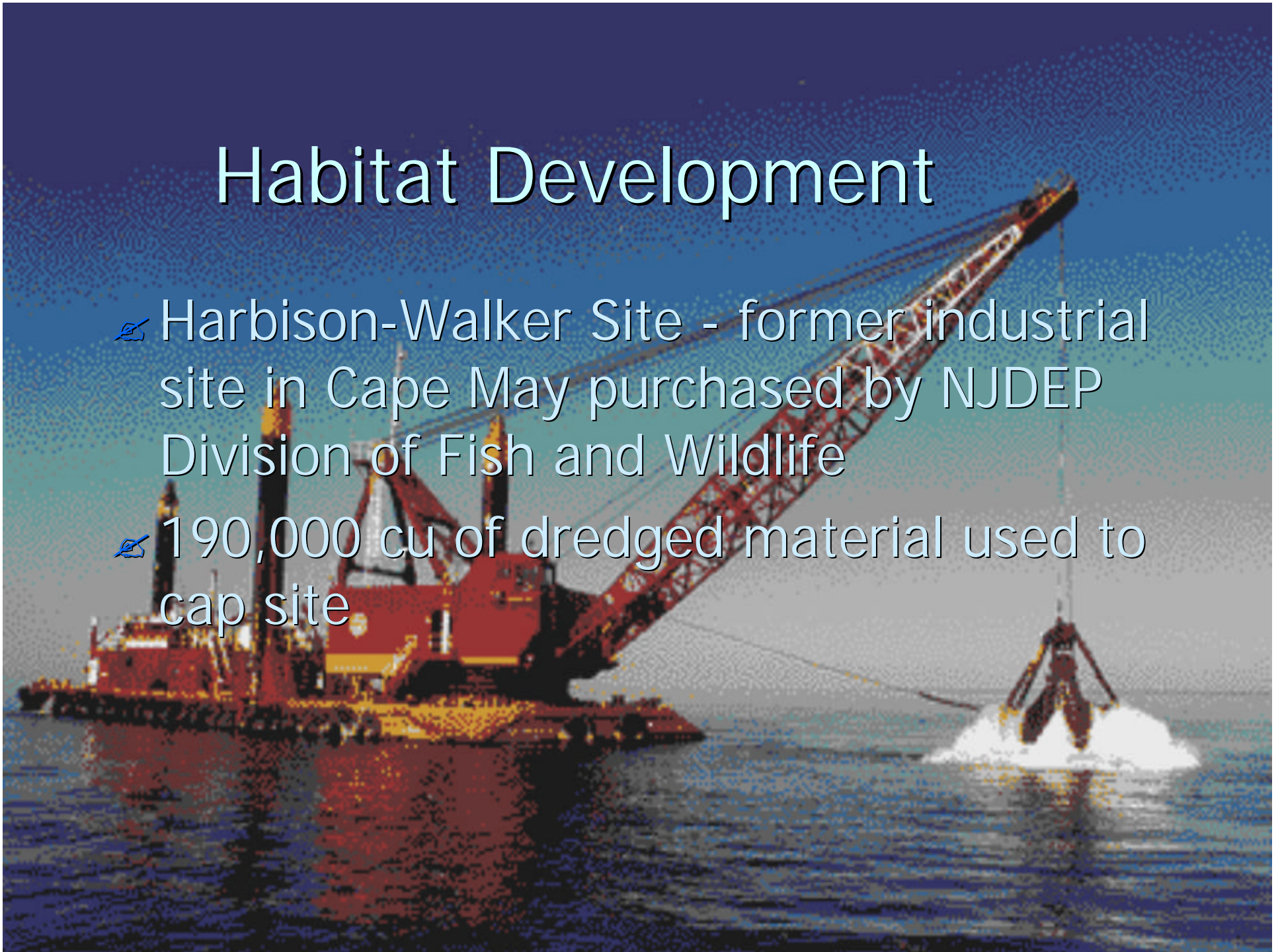
# Beneficial Use Alternatives

- Habitat development;
- Beach Nourishment
- Structural Fill Material - Brownfield Redevelopment
- Non-structural Fill Material
- Landfill Daily Cover/Landfill Cap Material;
- Agricultural use;



# Habitat Development

- ✍ Harbison-Walker Site - former industrial site in Cape May purchased by NJDEP Division of Fish and Wildlife
- ✍ 190,000 cu of dredged material used to cap site



Harbison-Walker Site

JUN 8 2004



# Beach Nourishment

- ✍ Dredged material must be greater than 90% sand
- ✍ Must be compatible with the grain size of the receiving beach
- ✍ Generally limited to smaller projects - beach club or private residential beach.



# Non-Structural Fill Material

## ✍ Road Construction Projects

- Ocean County - edging fill material for County project <1,000 cy

- Lacey Township - 12,000 cy (sub-fill)

## ✍ Grading/Fill material for commercial sites



# Pre-Construction - Riverwinds



# Riverwinds - Completed Project



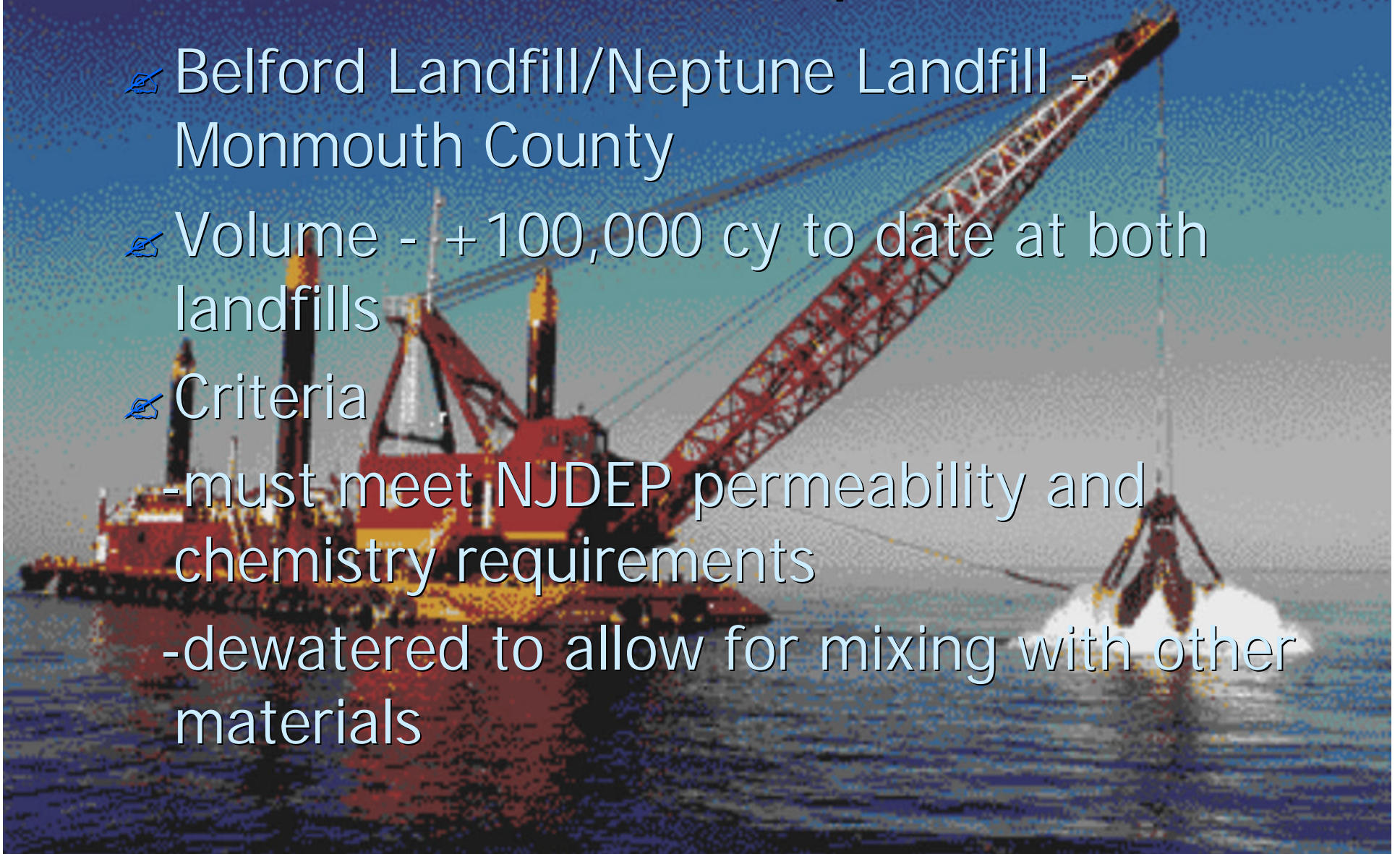
# Landfill Daily Cover

- ✍ Landfill Daily Cover - Ocean County Landfill
- ✍ Volume: 30,605 cy since 1999
- ✍ Criteria
  - chemistry must meet placement criteria
  - min. passing 3" sieve - 98%
  - must be free of liquids



# Landfill Closure- Cap Material

- ✍ Belford Landfill/Neptune Landfill - Monmouth County
- ✍ Volume - +100,000 cy to date at both landfills
- ✍ Criteria
  - must meet NJDEP permeability and chemistry requirements
  - dewatered to allow for mixing with other materials





# Neptune Landfill - Supplemental Cap Material



# Belford Landfill - 1999



# CDF Excavation



# Belford Landfill 2002-2003



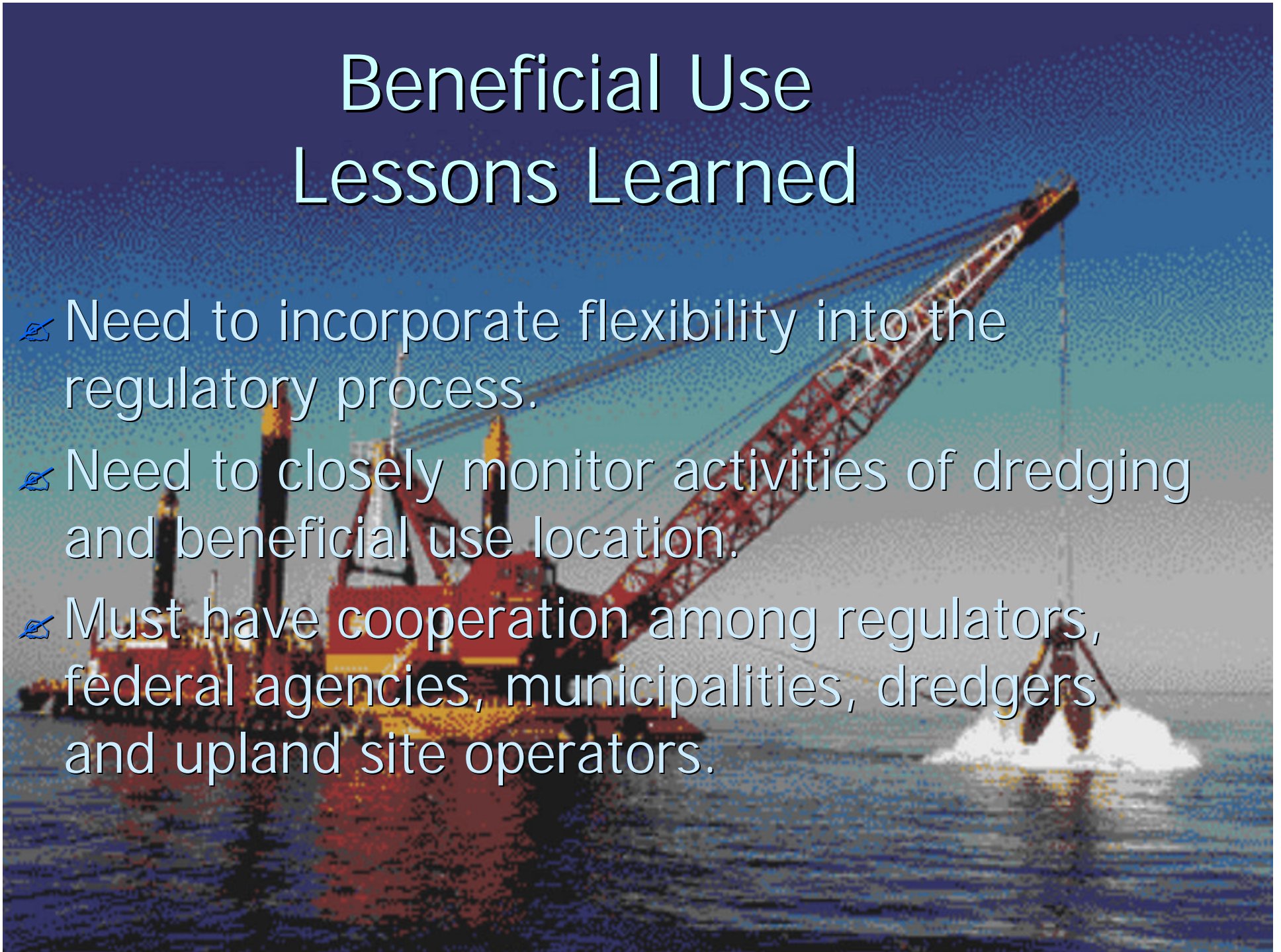
# Agricultural Use

- ✍ Landscape Topsoil
- ✍ Non-food crop applications
- ✍ Restricted to dredged material that meets Department's most stringent Residential Soil Cleanup Criteria and G.W criteria



# Beneficial Use Lessons Learned

- ✍ Need to incorporate flexibility into the regulatory process.
- ✍ Need to closely monitor activities of dredging and beneficial use location.
- ✍ Must have cooperation among regulators, federal agencies, municipalities, dredgers and upland site operators.



# Questions?

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